

U.S. Application No. :
PRELIMINARY AMENDMENT

Attorney Docket: 3975.024

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (original) A glass used as a sintering aid for a resorbable material comprising calcium phosphate, characterized in that the material is β -tricalcium phosphate and the glass has a chemical composition of 68-78% by weight SiO_2 , 5-12% by weight MgO and 12-27% by weight Na_2O .
2. (original) A glass according to Claim 1, wherein said glass has a chemical composition of 73-78% by weight SiO_2 , 8-11% by weight MgO and 12-19% by weight Na_2O .
3. (original) A glass according to Claim 1, wherein said glass has a chemical composition of 74-75% by weight SiO_2 , 8.5-10% by weight MgO and 14.5-17% by weight Na_2O .
4. (original) A glass according to Claim 1, wherein said glass makes up 0.5-15% by weight while tricalcium phosphate makes up 85-99.5% by weight.
5. (original) A glass according to Claim 4, wherein said glass makes up 4-8% by weight.
6. (currently amended) A method for manufacturing a resorbable moulded body comprising calcium phosphate, wherein characterized in that a glass consisting of 68-78% by weight SiO_2 , 5-12% by

weight MgO and 12-27% by weight Na₂O is melted, ground until a grain size D₅₀ of 0.7-2µm is achieved and mixed with β-tricalcium phosphate having a grain size D₅₀ of 1-7.5µm, the mixture is given the desired shape and the moulded body is produced by sintering said mixture at between 1,150 and 1,350°C and subsequently cooling it, with the proviso that the grain size of β-TCP must not be smaller than that of the glass.

7. (original) A method according to Claim 6, wherein shaping is carried out using the Schwartzwalder-Somers process or the free-form fabrication method.

8. (currently amended) An open-pore moulded body based on β-tricalcium phosphate, wherein characterized in that said moulded body has a composition ranging between (in % by weight) 46.1 and 54.0 CaO, 38.9 and 45.5 P₂O₅, 0.005 and 11.4 SiO₂, 0.001 and 4.05 Na₂O and 0.0005 and 1.8 MgO and solely comprises β-tricalcium phosphate as a crystalline phase according to roentgenographic analyses.

9. (currently amended) An open-pore moulded body based on β-tricalcium phosphate (β-TCP), wherein characterized in that said moulded body has a composition ranging between (in % by weight) 46.1 and 54.0 CaO, 38.9 and 45.5 P₂O₅, 0.005 and 11.4 SiO₂, 0.001 and 4.05 Na₂O and 0.0005 and 1.8 MgO and solely comprises β-tricalcium phosphate as a crystalline phase according to roentgenographic analyses and is manufactured by separately producing β-tricalcium phosphate and separately producing a glass consisting of 68-78% by weight SiO₂, 5-12% by weight MgO and

U.S. Application No. :
PRELIMINARY AMENDMENT

Attorney Docket: 3975.024

12-27% by weight Na_2O , mixing 99.5-85% by weight β -tricalcium phosphate and 0.5-15% by weight glass, processing the mixture into a slurry in a usual manner, applying it onto an open-pore sponge and sintering it at between 1,150 and 1,350°C to obtain after cooling the moulded body, with the provisio that the grain size of β -TCP is 1-7.5 μm , the grain size of the glass is 0.7-2 μm and the grain size of β -TCP must not be smaller than that of the glass.